CLAIMS

What is claimed is:

A resource manager for a security system network comprising:
 one or more devices for collecting and/or managing data from an
 environment:

one or more users that submit operation requests for the data; and a controller that receives the operation requests, determines load characteristics of the devices, and allocates the devices to the operation requests according to the load characteristics.

- A resource manager according to claim 1 wherein the controller generates allocation requests that attempt to allocate the operation requests to the devices in response to the operation requests.
- A resource manager according to claim 1 wherein the controller generates a graphical representation of the load characteristics.
- The resource manager according to claim 1 wherein the load characteristics include availability of the devices.
- The resource manager according to claim 1 wherein the load characteristics include media flow data of the devices.

- 6. The resource manager according to claim 5 wherein the media flow data includes a source identifier, a media format, a media bandwidth requirement, a multi-cast address, and a service identifier.
- 7. The resource manager according to claim 1 wherein load characteristics include location of the devices, availability of the devices, and current media flow of the devices.
- The resource manager according to claim 1 wherein the devices include a camera that collects multimedia data.
- The resource manager according to claim 8 wherein the camera streams the multimedia data in one or more media formats.
- The resource manager according to claim 8 further comprising a multimedia recorder that records the multimedia data.
- 11. The resource manager according to claim 10 wherein the multimedia recorder plays the multimedia data in response to the operation requests.

- The resource manager according to claim 10 further comprising an analyzer server that collects meta-data from the multimedia data.
- 13. The resource manager according to claim 12 wherein the analyzer server collects the meta-data directly from the camera.
- The resource manager according to claim 12 wherein the analyzer server collects the meta-data from the multimedia recorder.
- The resource manager according to claim 10 further comprising a meta-data server that stores the meta-data.
- 16. The resource manager according to claim 15 wherein the operation requests include searching the meta-data server for meta-data.
- 17. The resource manager according to claim 1 wherein the operation requests include record requests, analysis requests, play requests, and search requests.
- 18. The resource manager according to claim 17 wherein the record requests include at least one of a source camera identifier, a media recording format, a recording purpose, and a duration of recording.

- The resource manager according to claim 17 wherein the analysis request includes a source camera identifier and a duration of analysis.
- 20. The resource manager according to claim 17 wherein the analysis request includes an identity and a location of a multimedia file.
- 21. The resource manager according to claim 17 wherein the play request includes an identity and a location of a multimedia file.
- 22. The resource manager of claim 1 further comprising an Internet gateway server that connects the users to the security system network.
- The resource manager of claim 1 wherein the controller generates a schedule for the requests based on the load characteristics.
- The resource manager of claim 1 wherein the controller prioritizes the operation requests.
- The resource manager of claim 1 wherein the operation requests are generated by one of a user, an alarm, and a scheduled event.

26. A resource manager for a security system network comprising:
a camera that collects multimedia data;
a multimedia recorder that stores the multimedia data;
an analyzer that extracts meta-data from the multimedia data;
one or more users that submit operation requests for the data; and
a controller that receives the operation requests, communicates
with the camera, the multimedia recorder, and the analyzer to determine load
characteristics, and allocates the operation requests according to the load
characteristics.

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27. A method for allocating resources in a security system network comprising:

collecting data from an environment at one or more network resources;

submitting requests for the data from one or more users;

determining load characteristics of the network resources at a controller; and

allocating the network resources to the requests according to the load characteristics.

- 28. The method of claim 27 wherein allocating resources includes generating a schedule for the requests based on the load characteristics.
- 29. The method of claim 28 wherein generating a schedule includes prioritizing the requests based on network criteria.
- 30. The method of claim 27 wherein allocating the network resources includes determining a set of candidate devices, assigning scores to each candidate device in the set, and communicating with the candidate devices according to the scores.

- 31. The method of claim 30 further comprising calculating the scores according to a current load, a location on a the network, and existing media flows.
- 32. The method of claim 27 wherein communicating with the candidate devices includes determining availability of the candidate devices.
- 33. The method of claim 27 wherein determining load characteristics includes generating a graphical representation of the load characteristics.
- 34. The method of claim 33 wherein the graphical representation is a topographical map of the network.
- 35. The method of claim 34 wherein the topographical map includes indicia of networks and the network resources in the security system network.
- 36. The method of claim 33 further comprising determining costs of allocating the network resources to the requests according to the graphical representation.
- The method of claim 36 further comprising storing the costs in a matrix

- 38. The method of claim 27 further comprising generating a set of rules according to preferences of the users.
- 39. The method of claim 38 wherein allocating the network resources includes allocating the network resources according to the set of rules.